

FIG. 1

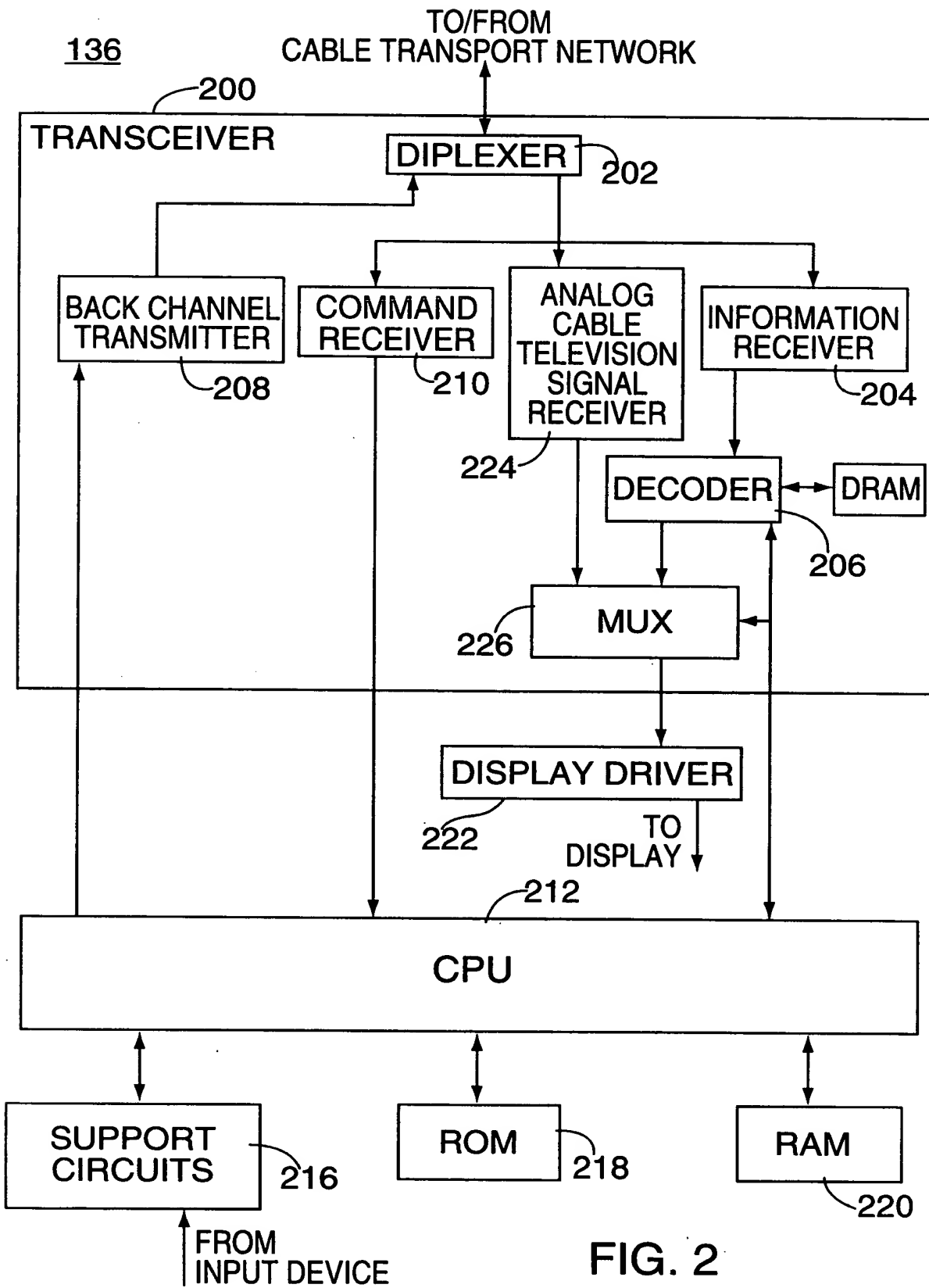


FIG. 2

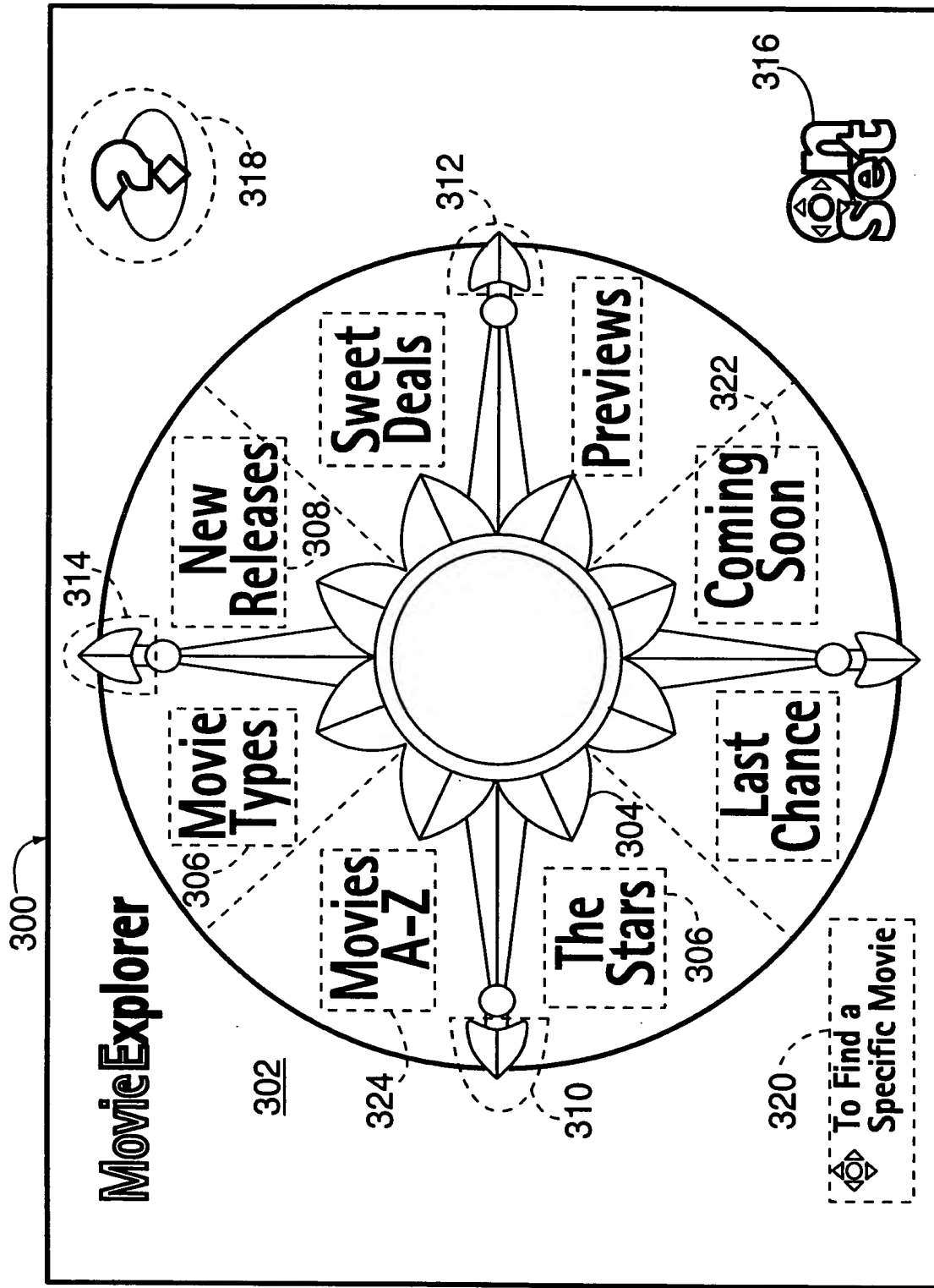


FIG. 3

606220-2956560

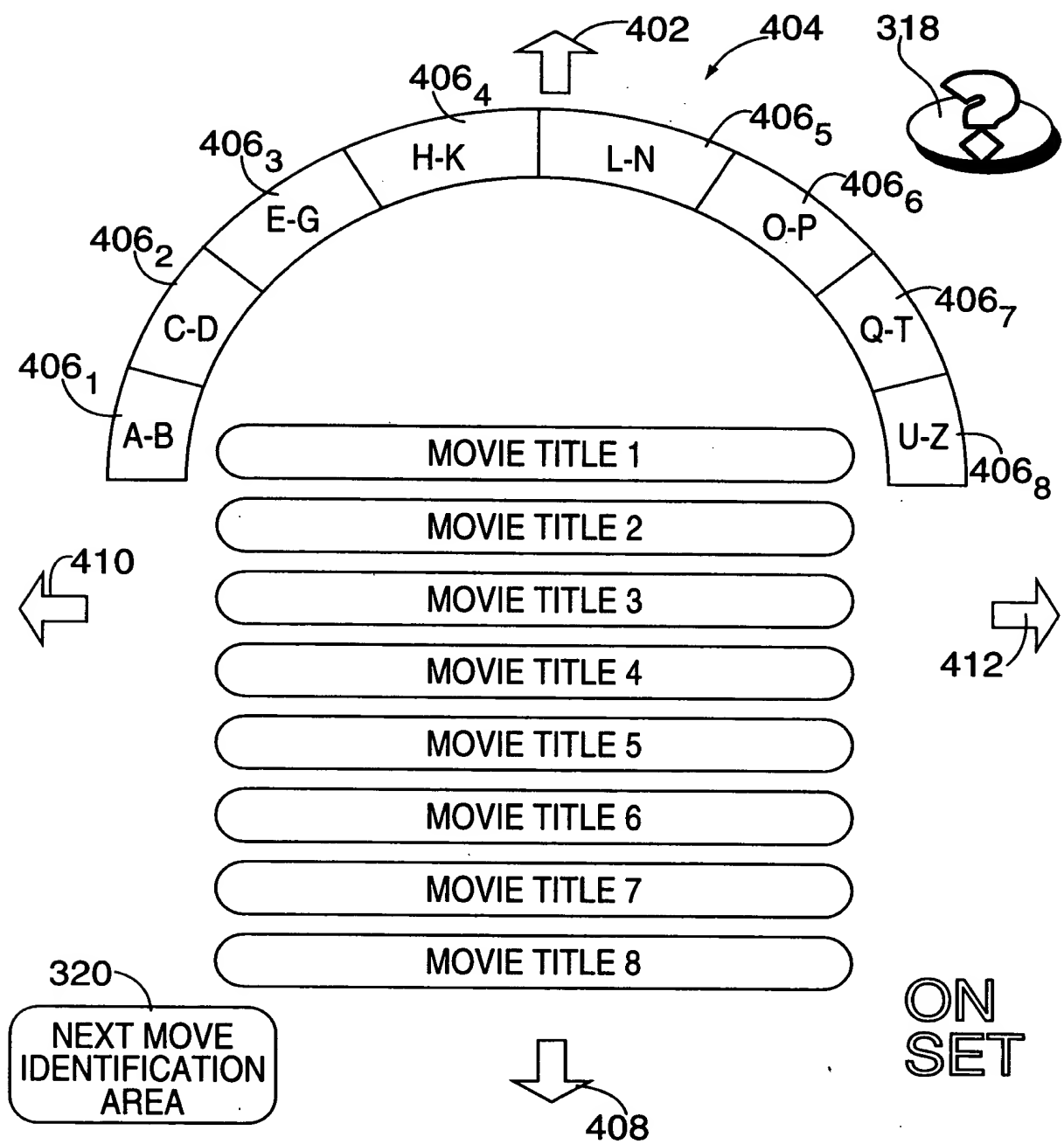


FIG. 4

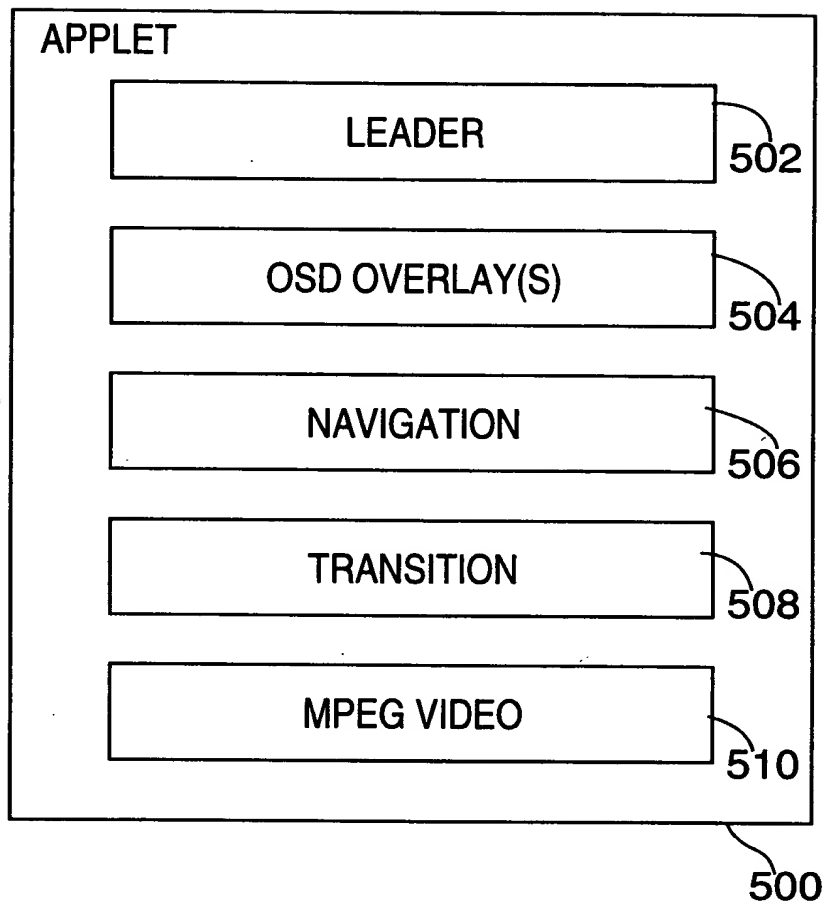
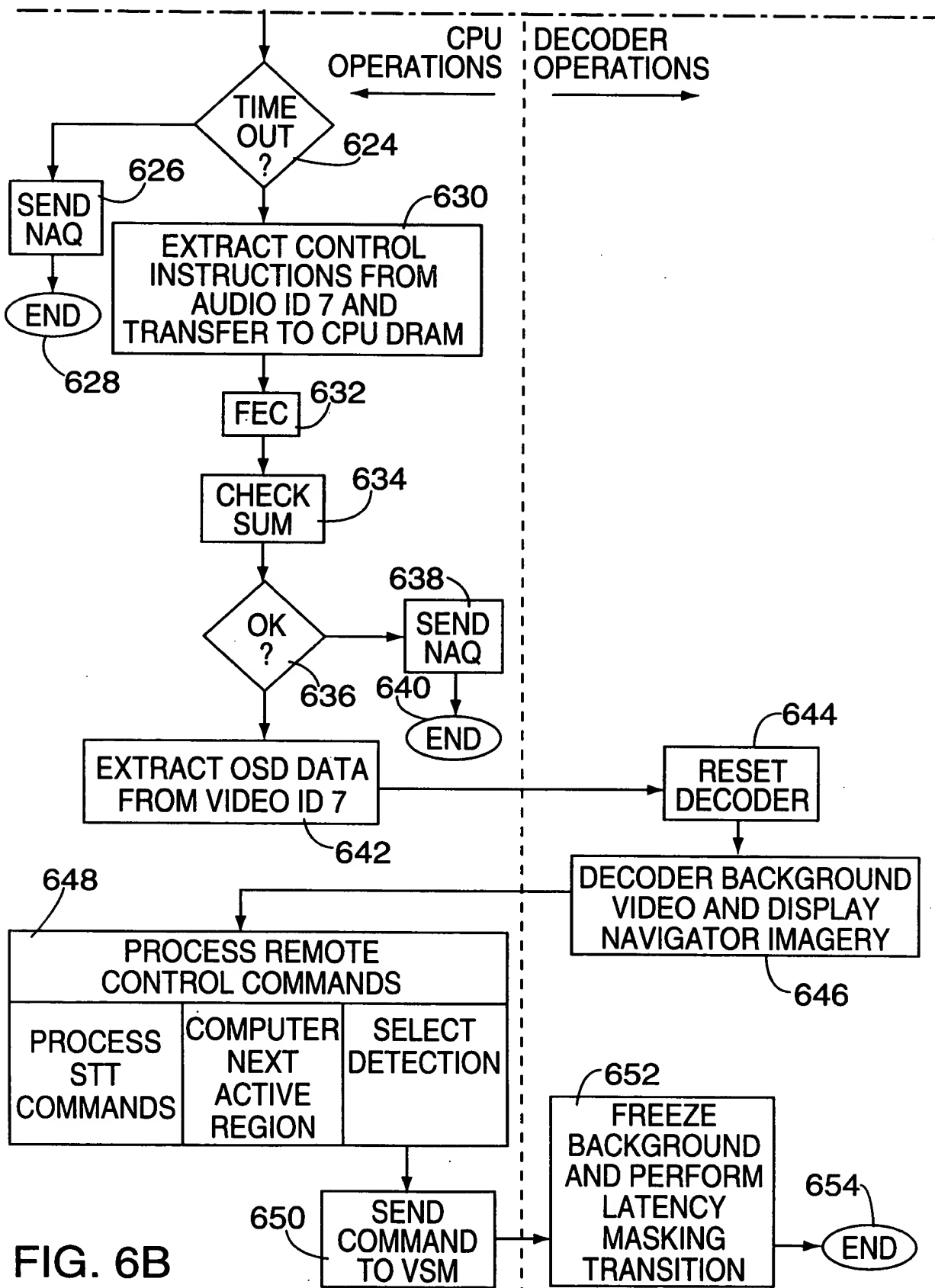


FIG. 5



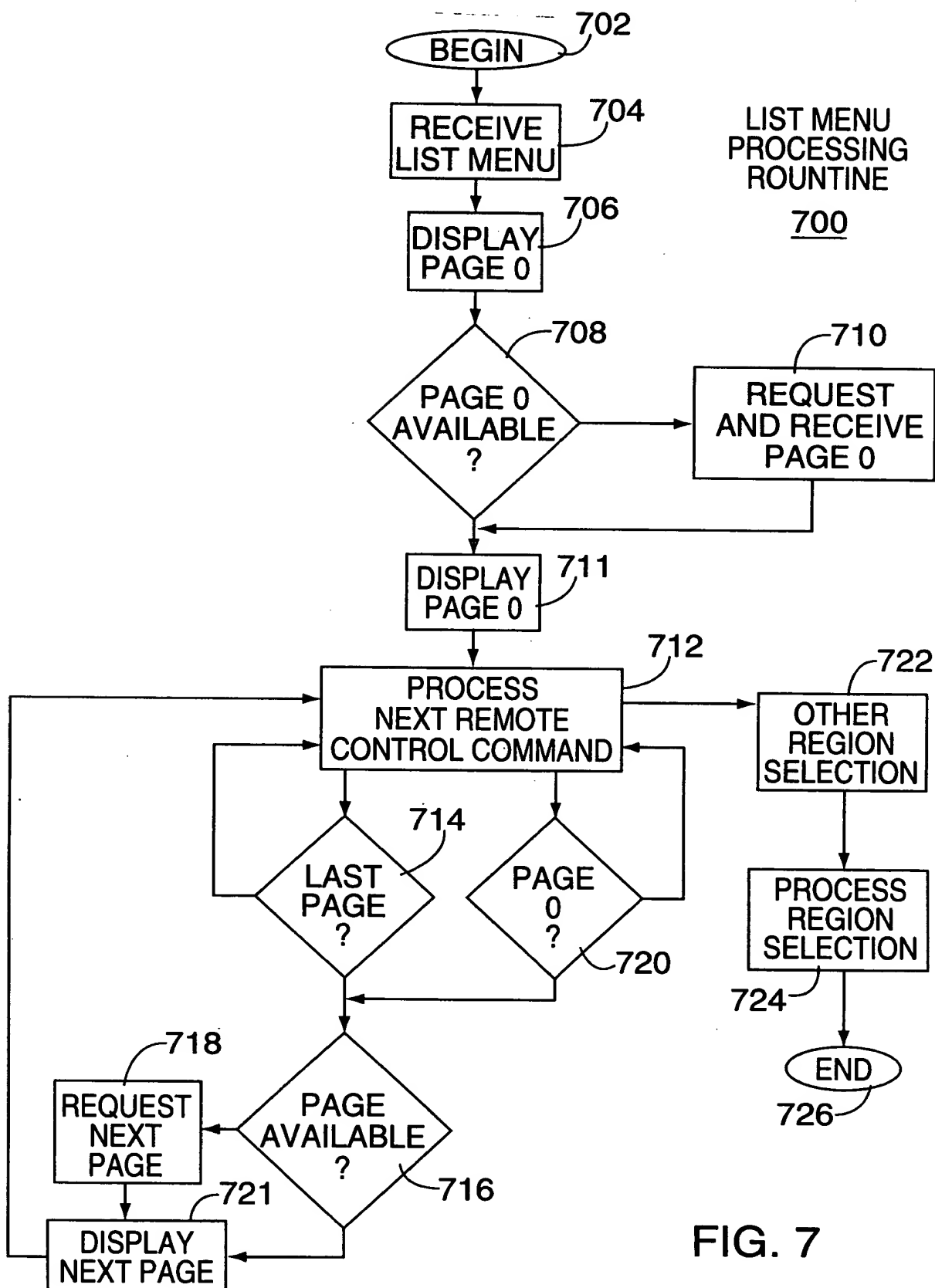
[illegible]

FIG. 7


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graph TD; VSM[FROM VSM] --> IDs[APPLET ID / REGION ID]; STT[FROM SET TOP TERMINAL] --> IDs; IDs --> AIT[APPLET ID TABLE]; AIT -- "APPLET ADDRESS" --> AM[APPLET MEMORY]; AM --> APP[APPLET];
```

FIG. 8

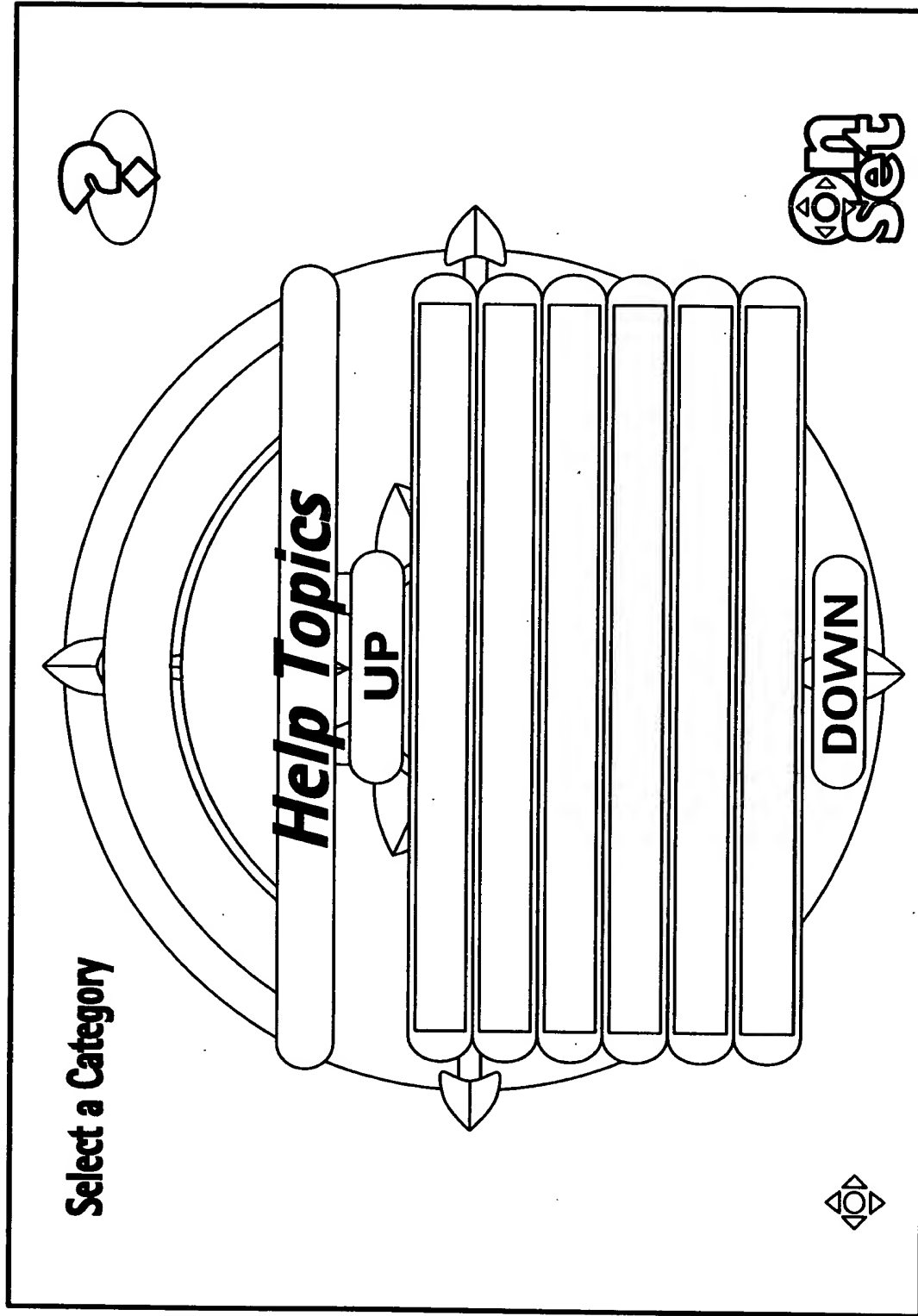


FIG. 9

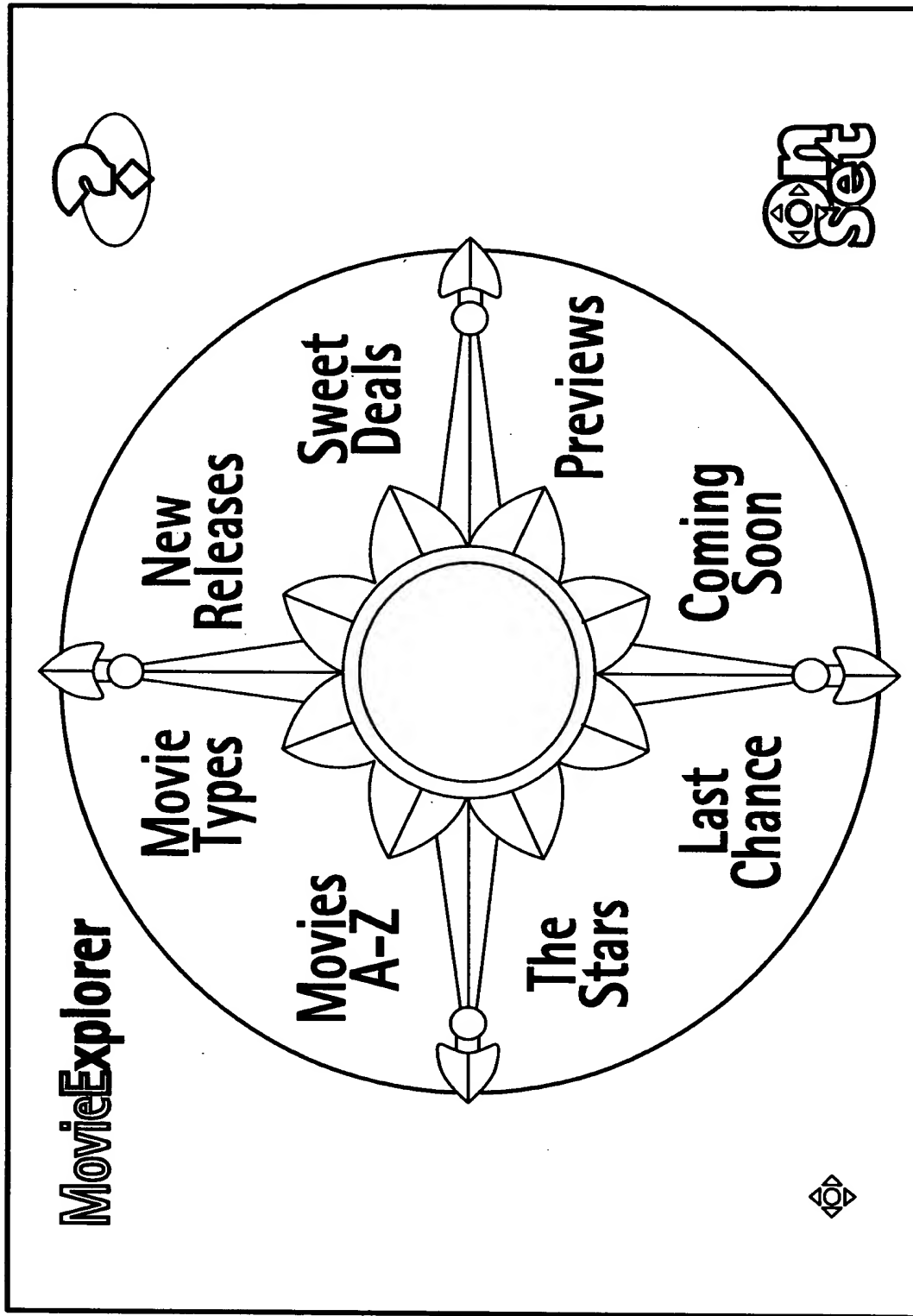


FIG. 10

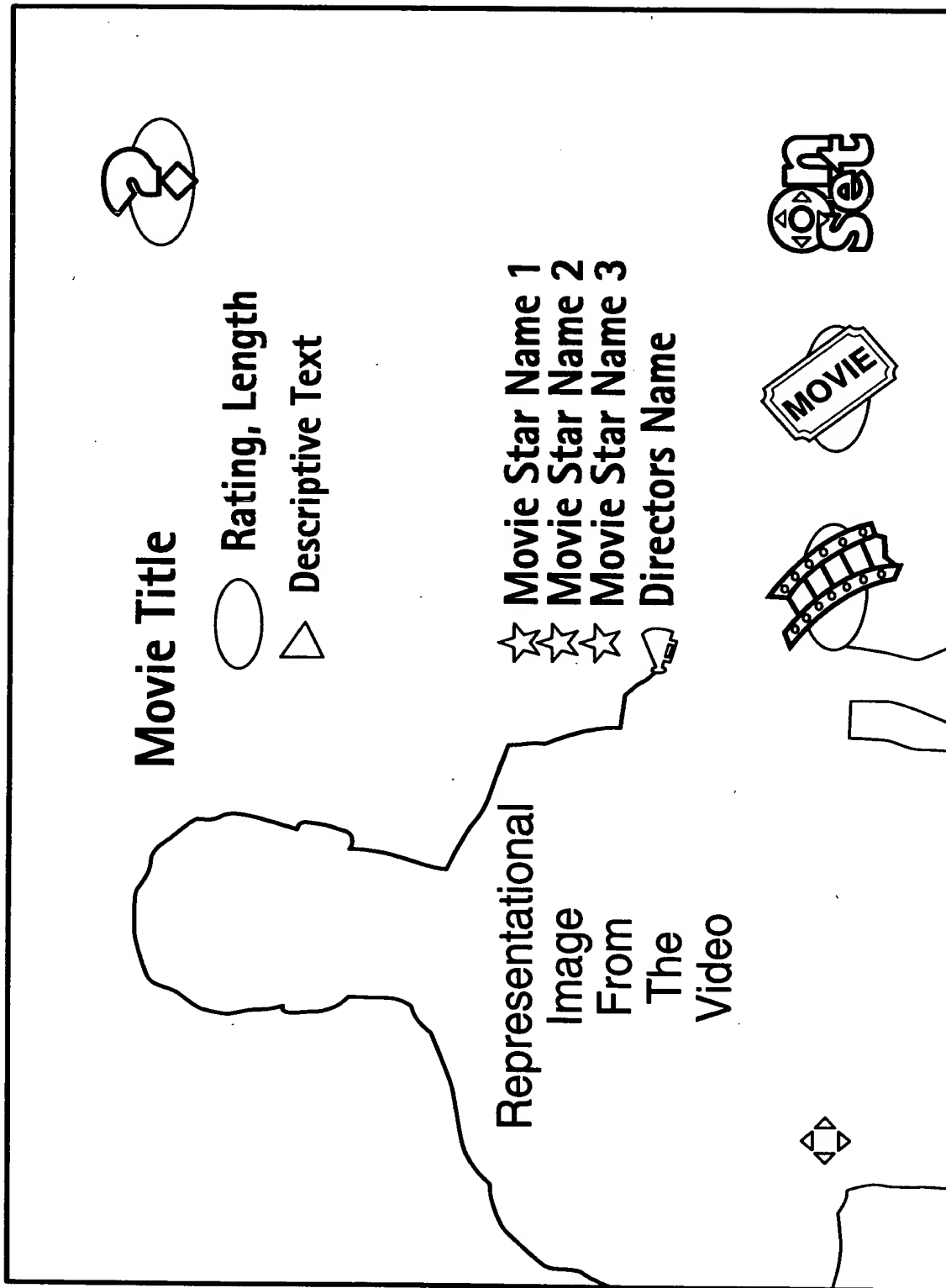


FIG. 11

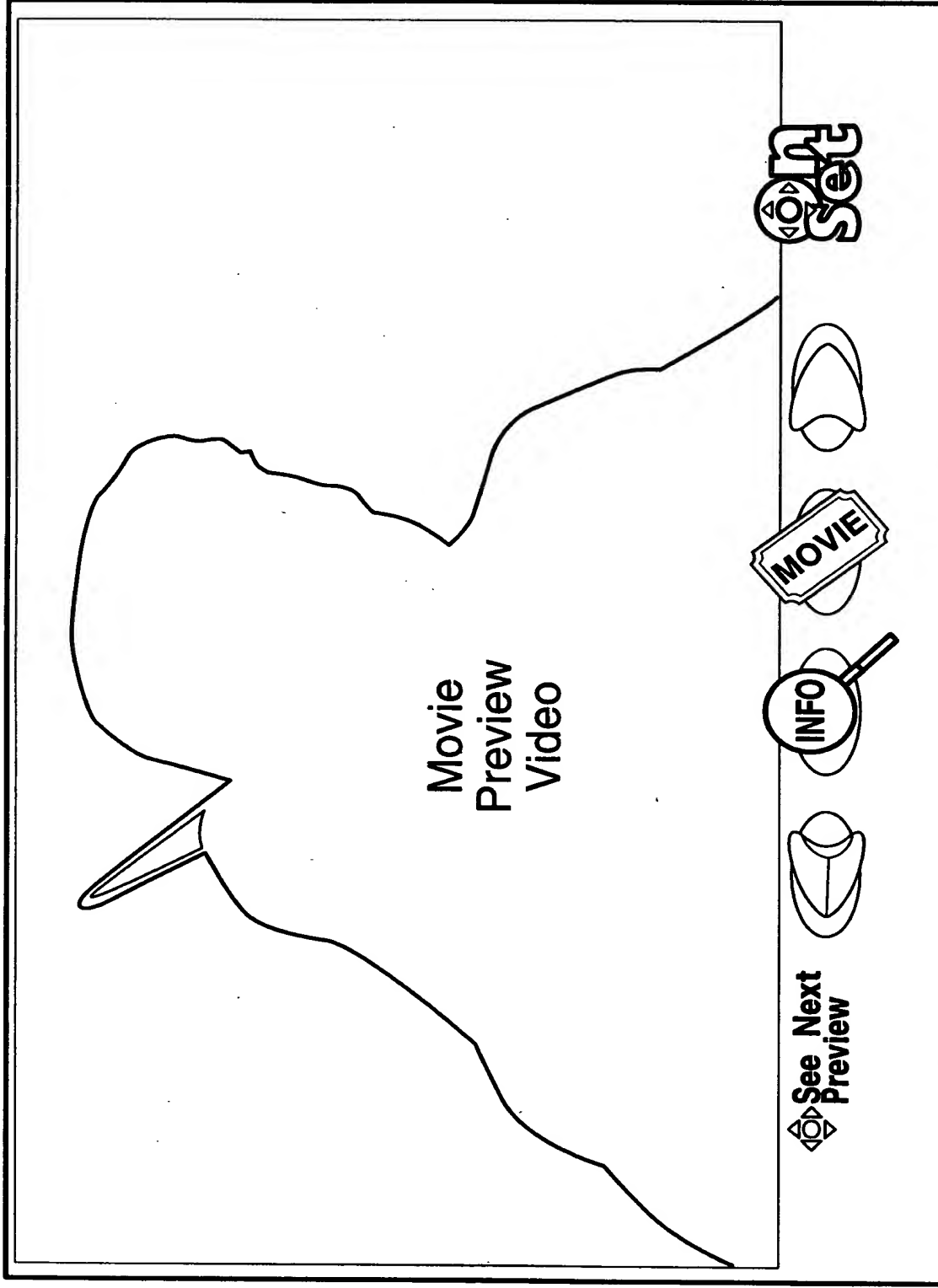
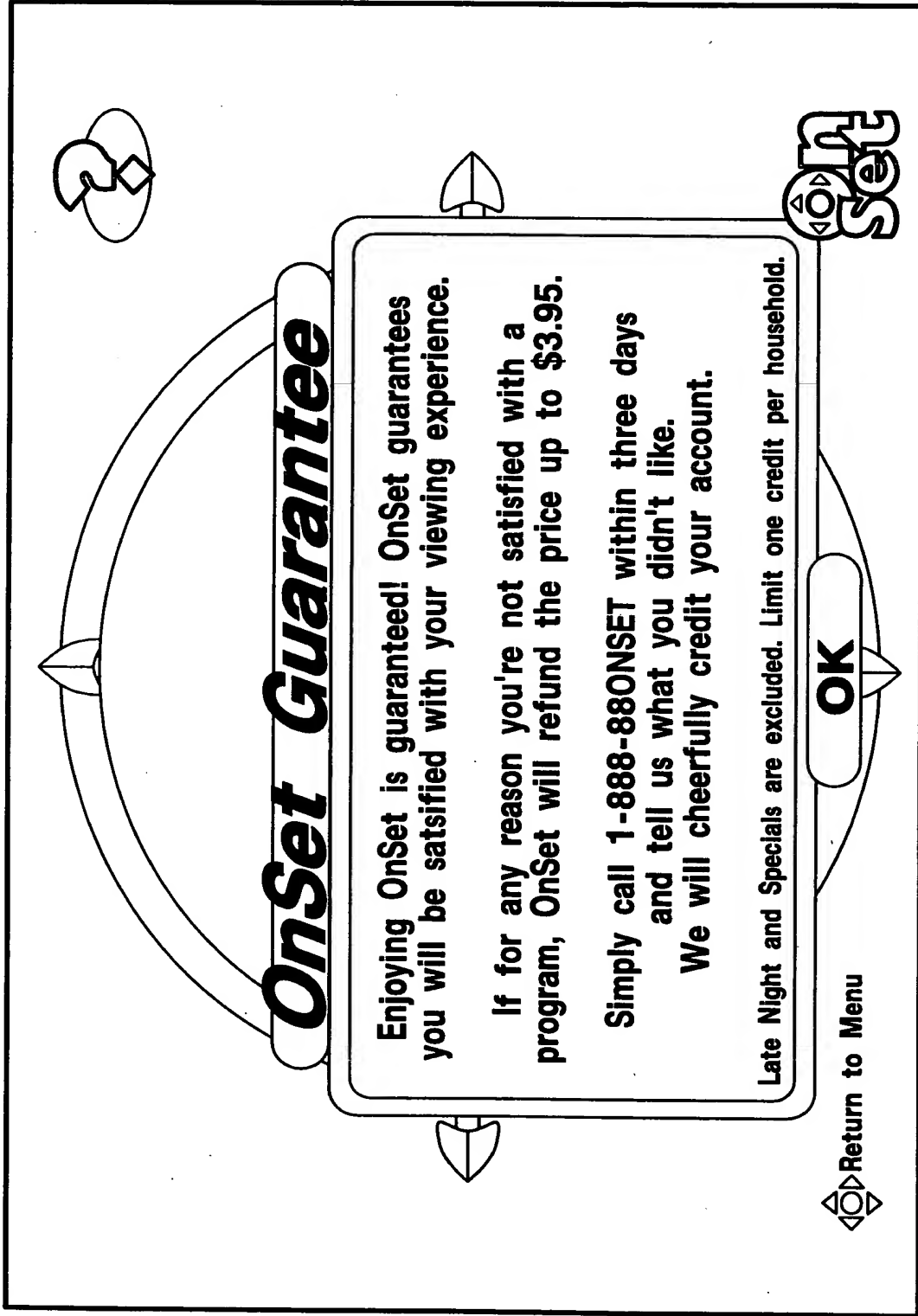
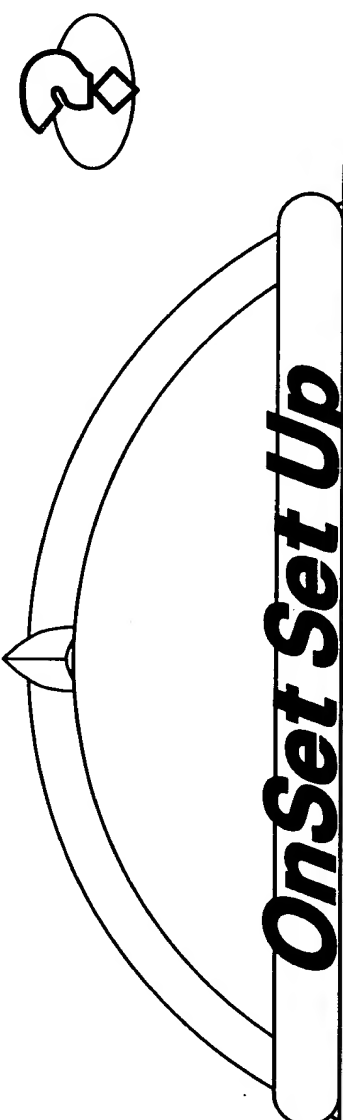


FIG. 11



VO: Text of Guarantee except for caveats

FIG. 13



OnSet Set Up

LONG-NAMED FAMILY'S ACCOUNT

1. Rating Limit:

Left or Right

None

2. Spending Limit:


Enter Numbers


\$100

3. PIN Number:

Enter Numbers

1111

OnSet

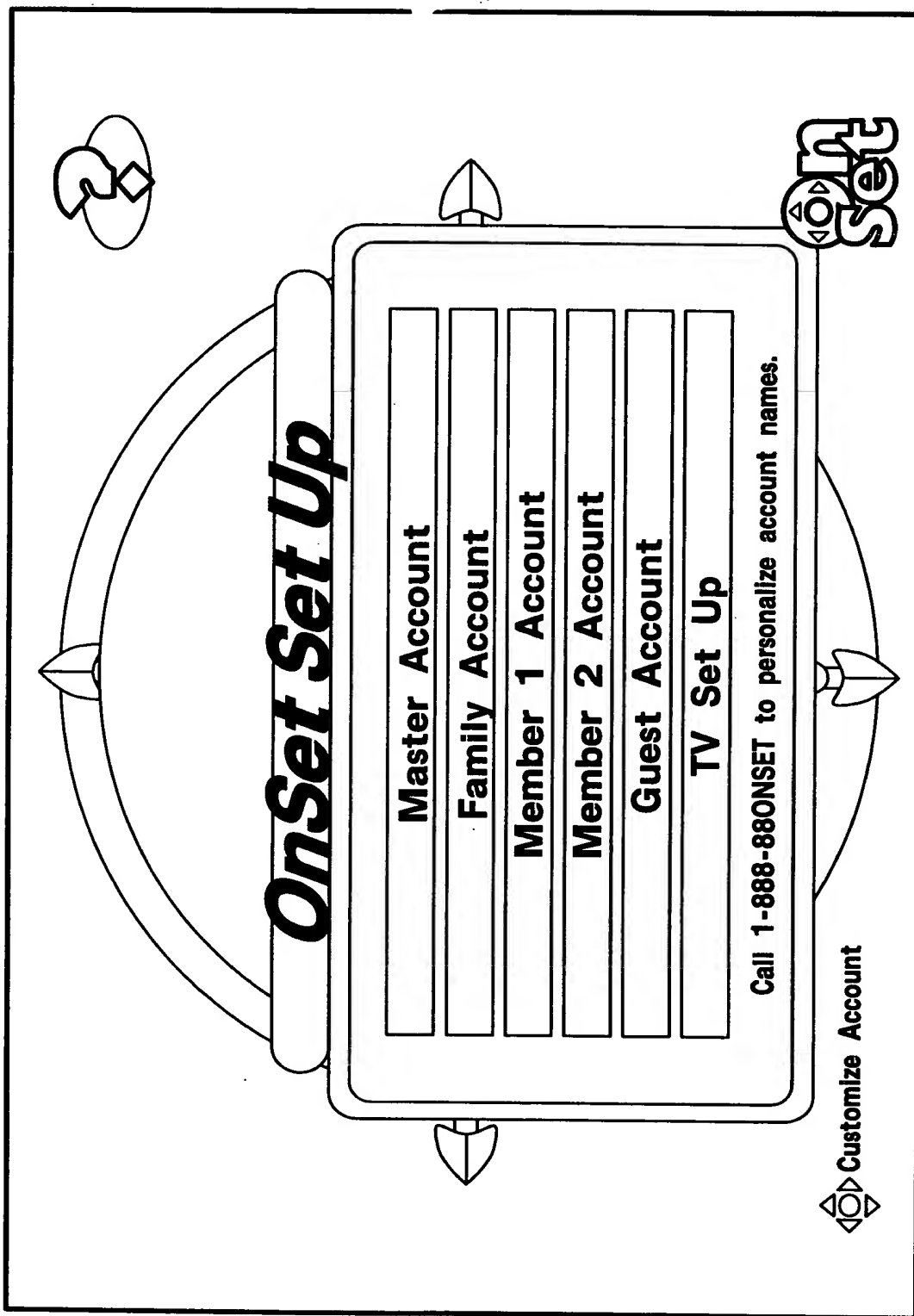
OnSet

No Restrictions

SAVE


VO: It's easy to set ratings and spending limits. Highlight a limit and move the OnSet Button left or right to change it. To set or reset the PIN Number, just enter four digits from the remote control. Select "Save" when you're done, or press "Return" to

FIG. 14




VO: You can set up accounts to control spending and ratings limits for the members of your family. You can also set up this TV to require PIN numbers to use OnSet.


FIG. 15




Account Summary

Current as of Yesterday		
Current Charges	\$123.45	12/31/96
Last Statement	\$123.45	11/31/96
Last Payment	\$123.45	11/31/96



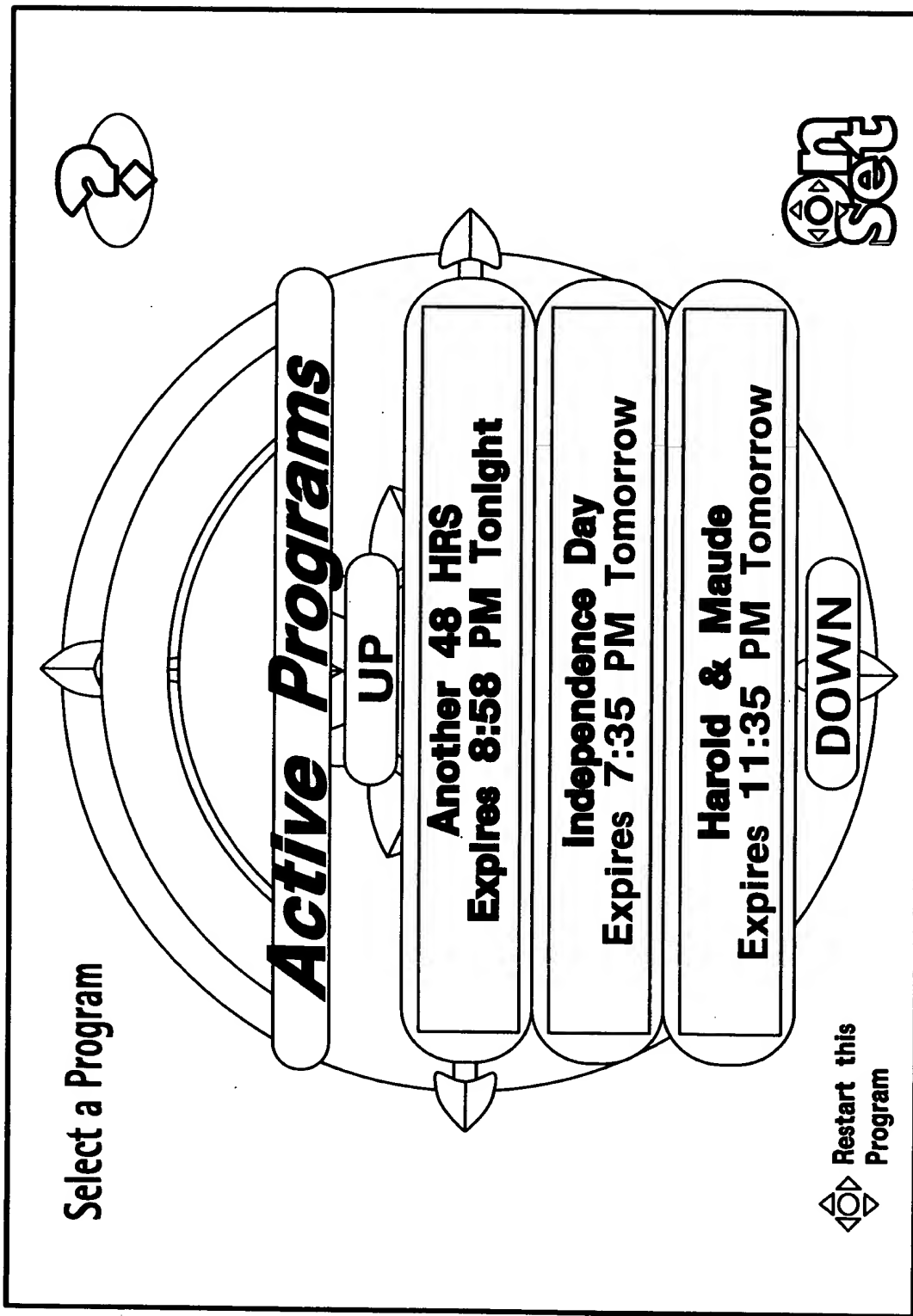
 Return to Menu

 **SAVE**



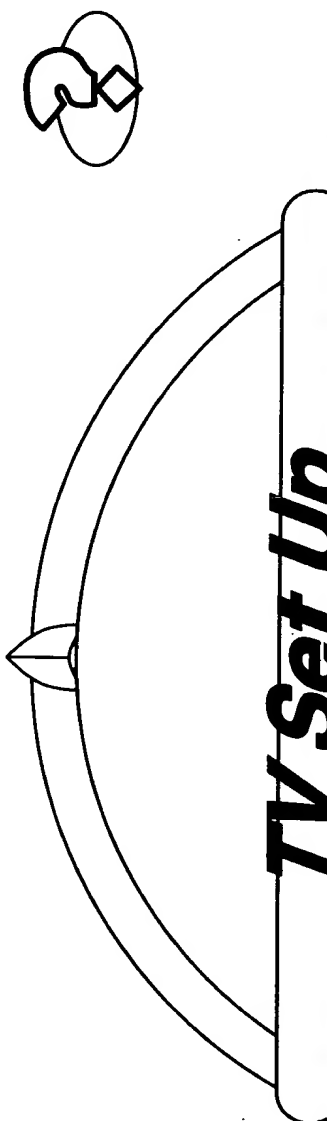
VO: Here is an up-to-date summary of your OnSet Account as of yesterday, including payments received and programs ordered. If you have additional questions, please call us at 1-888-88ONSET.

FIG. 16



VO: This screen lets you decide whether to require a PIN Number to use OnSet on this TV.
Move Left or Right to change settings. When you're ready, select "Save".

FIG. 17



TV Set Up

1. Require PIN Number to use OnSet on this TV?

Left or Right


◀
NO
▶

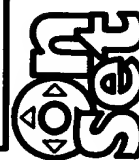
2. If No, which account's ratings and spending limits apply to this TV?

◀
LONG-NAMED FAMILY'S ACCOUNT
▶

◀▶ No Restrictions

SAVE





VO: This screen lets you decide whether to require a PIN Number to use OnSet on this TV. Move Left or Right to change settings. When you're ready, select "Save".

FIG. 18

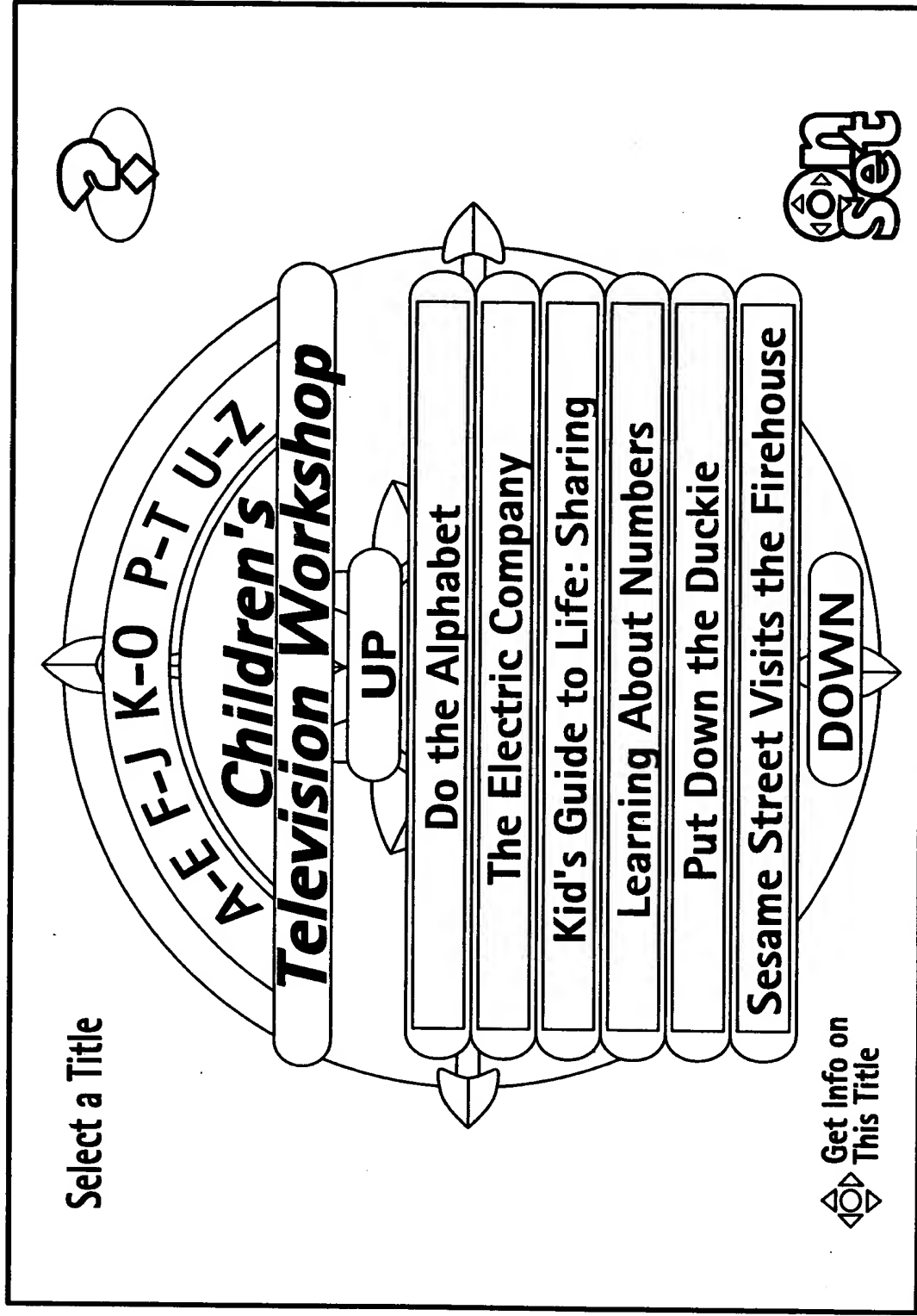


FIG. 19

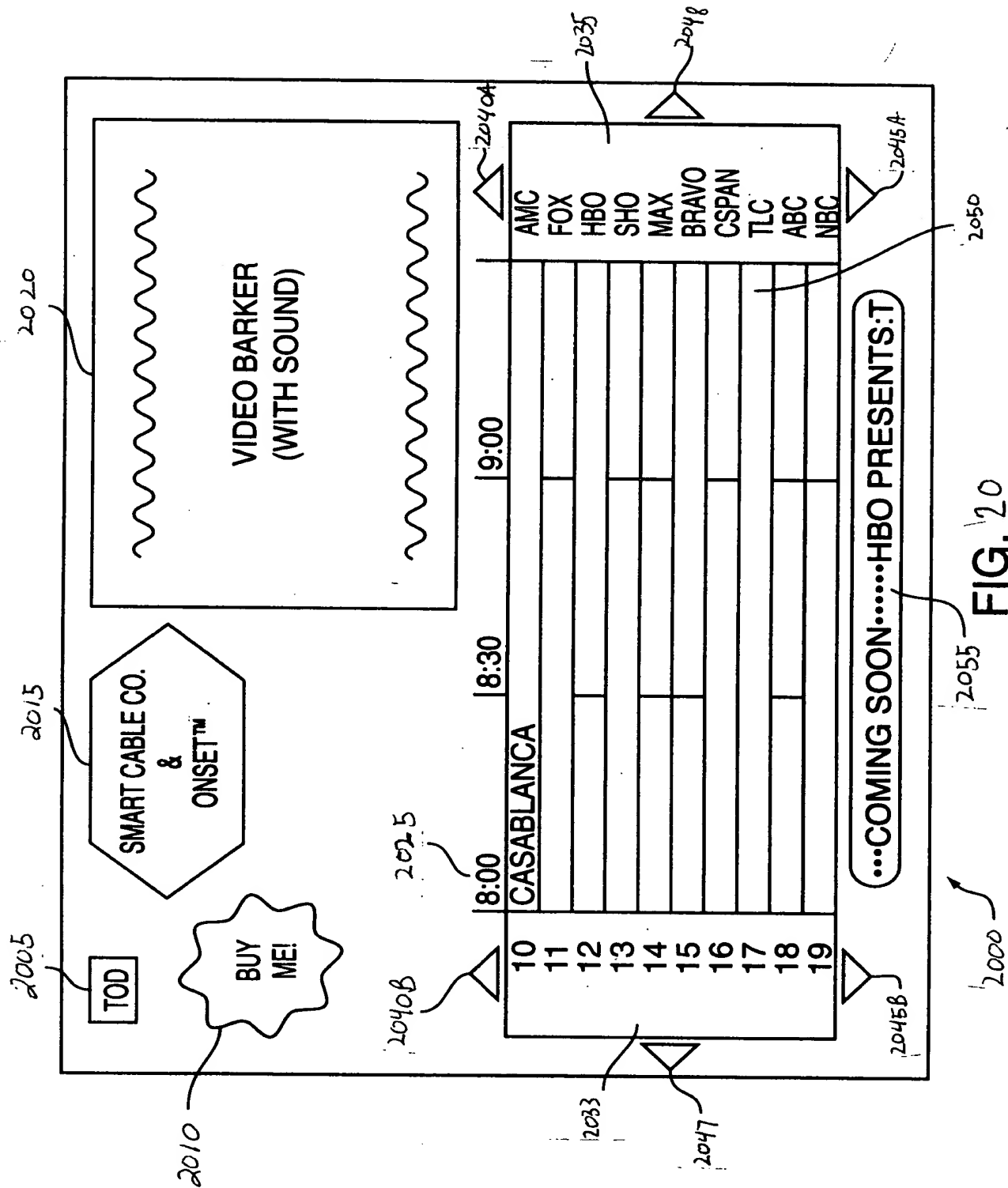


FIG. 20

002220-2956560

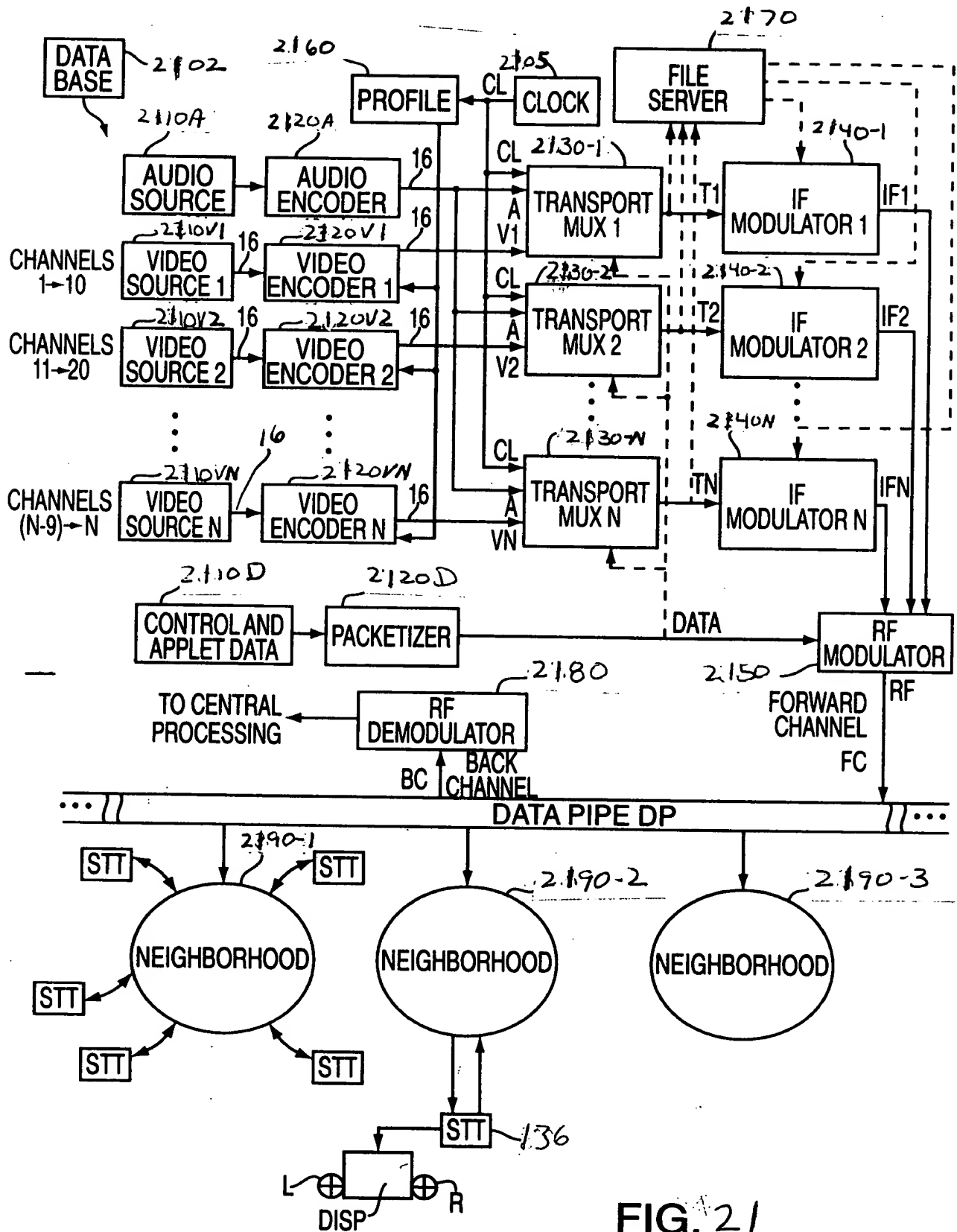


FIG. 21

The diagram illustrates a video game system 136. At the top, a group of boxes labeled BS1, BS2, ..., BSN are connected to a central point M. A signal path starts from a 'FROM FORWARD CHANNEL' input, passing through a 'TUNER' (2210), a 'DEMODULATOR' (2220), and a 'TRANSPORT DEMUX' (2230). The 'TRANSPORT DEMUX' outputs to an 'AUDIO DECODER' (2240) and a 'VIDEO DECODER' (2250). The 'AUDIO DECODER' outputs to an 'AUDIO PROCESSOR' (206). The 'VIDEO DECODER' outputs to a 'COMPOSITOR' (2290). The 'COMPOSITOR' outputs to a 'FRAME STORE' (2262), which then outputs to a 'VIDEO PROCESSOR'. A 'MODULATOR' (2275) is connected to the 'TRANSPORT DEMUX' and outputs to a 'TO BACK CHANNEL'. A 'CONTROLLER' (2270) is connected to the 'TRANSPORT DEMUX' and the 'FRAME STORE'. The 'CONTROLLER' contains a 'MEMORY' (2226) with 'USER INTERACTION ROUTINE' (2300), 'DYNAMIC OVERLAY STORAGE' (2276-2), and 'STATIC OVERLAY STORAGE' (2276-1). It also includes a 'P' (2272) and 'SUPPORT CIRCUITS' (2278). An 'I/R' (2275) is connected to the 'CONTROLLER' and the 'TRANSPORT DEMUX'. An '8 POSITION JOYSTICK NUMBER PAD SELECT KEY FREEZE KEY RETURN KEY' (2280) is connected to the 'I/R'. A 'DATA' (2260) path connects the 'TRANSPORT DEMUX' to the 'COMPOSITOR'.

136

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graph TD
    2302([START]) --> 2304[TUNE FIRST BROADCAST STREAM]
    2304 --> 2306[DEMUX AND DISPLAY VIDEO PID  
DEMUX AND PRESENT AUDIO PID]
    2306 --> 2308[RETRIEVE OVERLAY  
DISPLAY OVERLAY]
    2308 --> 2310[WAIT FOR USER INPUT]
    2310 --> 2312[EVALUATE INPUT]
    2312 --> 2314{ABSTRACTION LEVEL?}
    2314 -- CONTEXTUAL --> 2316{KEY TYPE?}
    2314 -- LOCAL INTERACTIVITY --> 2324{KEY TYPE?}
    2316 -- SELECT --> 2320[CHANGE CONTEXT]
    2320 --> 2322[PERFORM CONTEXT FUNCTIONS(S)]
    2322 --> B1((B))
    2316 -- RETURN --> 2318[REACQUIRE PREVIOUS CONTEXT]
    2318 --> B2((B))
    2324 -- DEC --> 2326{FIRST PID?}
    2324 -- INC --> 2332{LAST PID?}
    2324 -- FREEZE --> 2334[FREEZE FRAME STORE MEMORY]
    2334 --> B3((B))
    2326 -- YES --> 2328[TUNE PRIOR BROADCAST STREAM]
    2328 --> A1((A))
    2326 -- NO --> 2330[DEMUX AND DISPLAY PRIOR VIDEO PID]
    2330 --> B4((B))
    2332 -- YES --> 2338[TUNE NEXT BROADCAST STREAM]
    2338 --> A2((A))
    2332 -- NO --> 2336[DEMUX AND DISPLAY NEXT VIDEO PID]
    2336 --> B5((B))
    2332 -- D --> 2336
  
```

FIG. 23